HP Designjet 820 MFP

Combine three frequently used devices in an all-in-one solution. Use the HP Designjet 820 MFP to copy, scan, and print in color and black & white. The integrated design saves workspace, and the intuitive operation means less user training.

Built together to work together

- **Large-format color and black-and-white scans, copies and prints.** The built-in scanner accepts originals up to 43 in (1092 mm) wide and up to 0.6 in (15.2 mm) thick. Produce the output on a large variety of media and in sizes up to 42 in (1067 mm) wide.
- **Preconfigured drivers and network connectivity integrate your entire HP production system.** Add the scanner to your HP Designjet 500, 800, 1000, 4000, 4500, 5000 and 5500 series products. Eliminate user retraining by including this scanner in your HP design-and-production solution.
- **High processing speed makes short work of large files.** The HP Designjet 820 MFP comes standard with an integrated embedded-operating system and a fast Intel Pentium IV processor. The 2.6 Ghz processing speed, 1 GB memory, and 23 GB hard disk drive enable faster scan and copy performance.

Versatility and performance for all your needs

- **High quality resolution creates precise and detailed output.** Scan or print at a resolution of up to 2400 dpi enhanced, and a line accuracy of 0.15 percent. Scans, prints, and copies look impressive and professional thanks to primary features that include 2400 x 1200 dpi resolution and HP color layering technology.
- **On demand scanning increases efficiency.** The built-in scanner produces 200 dpi color scans at 1.5 in (38 mm) per second, and 200 dpi black-and white scans at 5 in (127 mm) per second.
- **Advanced copy features simplify your tasks and expand your options.** Copy, enlarge or reduce images quickly and easily and adjust margins to create the ideal image. Use the auto-alignment option to load and preview your original so that skew is never a problem. Use the nesting option to save media, and make extra-large enlargements easily with the paneling option. Track your out put by using the integrated accounting features.

Easy operation saves training time and costs

- **Even untrained users can easily master operation and immediately scan, print, and copy large-format documents.** The graphical touch-screen display and intuitive software walks the user through the appropriate procedure to produce the type of document or file required. Calibration wizard ensures HP quality in all HP Designjet 820 MFP output.
- **Batch and network printing for greater productivity.** The HP 820 MFP includes a prints-list feature that can be used to print scanned jobs in unattended batches. You can also set up additional HP Designjet products on your network and then print remotely from the HP Designjet 820 MFP graphical display.
- **Take advantage of a variety of digital output formats and support options.** Offer your customers, clients and co-workers the convenience of having scanned documents available on DVDs and CDs. Save your scanned files in the most common file formats, including PDF, TIFF and JPEG.

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1. Prints, scans and copies up to 42-inch (1067-mm) wide. Scans at an impressive speed of 1.5-inch (38-mm) per second for color and 5-inch (127-mm) per second for mono originals, and prints up to 85 ft2/hr (7.9m2/hr)

2. 15-inch touchscreen graphical display for easy, intuitive operation

3. DVD/CD reader/writer to save files directly to disc

4. Built-in fast image processing for excellent copy and scan performance

5. Intuitive software provides easy-to-use scanning, copying and network printing

6. The integrated product design saves workspace

7. Print output basket for high volume batch jobs

The HP multifunctional advantage

You can count on HP superior quality and dependability with the HP Designjet 820 MFP - a single, integrated solution combining smart software with a scanner, printer, and touchscreen display for all your business needs. HP also offers a variety of support options to assist you in the set-up and maintenance of your HP Designjet 820 MFP.

Scanner	• Three digital cameras scan at a resolution of up to 2400 dpi enhanced, 508 dpi optical resolution with 0.15 % line accuracy • Full vivid color with 24-color and 8-bit graytone • High-speed, 200 dpi color scanning at 1.5 inches (38 mm) per second and 200 dpi monochrome scanning at 5 inches (127 mm) per second	• Scan media up to 42 inches (1067 mm) wide and up to 0.6 inches (15.2 mm) thick, for handling oversized, heavyweight originals-even cardboard • Color 2D Adaptive Thresholding provides color correction and 2D-filters for color sharpening, image softening, and blur • Dual 2D Adaptive Gray enhancement technology produces clean, crisp scans even from poor quality originals
Software	• Preview your image for a high quality, precision job • Copy, enlarge, reduce or adjust colors and settings, comparable or even better than your originals • Scan to file, DVD, CD in file formats including .pdf, .tif, .jpeg and CALSG4	• Print locally or print through the network to HP Designjet 500, 800, 1000, 4000, 4500, 5000, 5500 series printers • Use the nesting option to save media • Make enlargements easily with the paneling option • Track your usage using the integrated accounting features
Touchscreen display	• Pentium IV, 2.6 Ghz and 23 GB on memory for scanned jobs • Small keyboard included for easy data entry	• DVD/CD reader/writer included for efficiency and versatility • Fast network connection (TCP/IP)
Printer	• HP Designjet 800ps printer prints up to 42 inches (1067 mm) wide on a variety of media • Virtual computer inside, including Adobe® PS RIP, embedded HP-GL/2 processor, 160 MB of RAM, and a network interface • Achieve excellent image quality with HP Color Layering Technology, up to 2400 x 1200 dpi resolution, and 0.2% line accuracy • Fast efficient printing with speeds up to 85 ft2/hr (7.9 m2/hr) in fast mode	• HP smart printing technology supplies produce excellent, quality printing every time • Replace only the ink supplies you need. Modular, individually replaceable supplies make color cost effective • A complete selection of media choices for the look you need
Support and service	• One-year onsite warranty • Additional support options include physical installation with or without network configuration, three-year warranty extension, and a one-year post warranty	• 24-hour online support via www.hp.com/go/designjet provides troubleshooting tips, driver downloads, user forums, and documentation • Toll-free phone support with product experts

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Technical specifications

Print	
Print Speed	90 sec D/A1 line drawings on HP Bright white Inkjet media, 85 ft2/hr (7.9 m2/hr) color image on HP Coated media in fast mode
Print Resolution Maximum	2400 x 1200 dpi (on HP Premium Photo Paper)
Technology	HP Color Thermal Inkjet
Technology resolution	HP Color Layering Technology
Print cartridge colors	Black, cyan, magenta, yellow
Ink types	Pigment-based black, dye-based color
Ink drop	18 pl (black ink), 4 pl (color inks)
Scan	
Scan speed	Color (200 dpi): 1.5 in/sec (38 mm/sec), black & white (200 dpi): 5 in/sec (127 mm/sec)
Scan/Copy resolution	**Best mode:** color and black & white 300 x 300 dpi
	Draft mode: color and black & white 200 x 200 dpi
	Normal mode: color and black & white 200 x 200 dpi
	Enhanced mode: 2400 x 2400 dpi with variable resolution settings from 50 dpi in increments of 1 dpi
Maximum scan width	42 in (1067 mm)
Maximum scan thickness	0.6 in (15.2 mm)
Copy	
Reduction/Enlargement	1 to 10000%
Maximum copies	99 copies
Copier settings	Type of original, image crop and align preview, lightness, saturation and RGB controls, sharpen/blur, mirror copy, enlarge/reduce, paneling, tiling, nesting, accounting
Media Handling	**Printer:** Single-sheet feed, roll feed, automatic cutter, standard bin
	Scanner: Straight-through scan paper path for sheet and cardboard originals, servo assisted media thickness adjustment
Media types	**Printer:** Bright white inkjet paper (bond), translucent bond, natural tracing paper, vellum, clear film, matte film, coated paper, heavyweight coated paper, high-gloss photo paper, semi-gloss photo paper, paper-based semi-gloss, satin poster paper, studio canvas, banners with Tyvek, colorfast adhesive vinyl.
	Scanner: Non-abrasive paper, vellum, mylar, sepia, blueprints, plastic film, plastic laminate, foam board, cardboard. (No plywood, stone plates, metal plates or abrasive, dirty, rough, sharp edged, metal clamped, burned surfaces, transparencies.)
Processing & Memory	Pentium IV, 2.6 Ghz, 1 GB memory, 23 GB hard disk. **Printer:** 160 MB. **Scanner:** 1 GB
Connectivity	
Interfaces standard	**Printer:** Centronics parallel IEEE 1284-compliant (ECP), HP Jetdirect WIO 10/100 Internal Print Server
	Scanner: Fast Ethernet 10/100 Base-TX
Drivers (included)	**Printer:** Microsoft® Windows® 95, 98, Me, NT 4.0, 2000, Macintosh OS 8.1 or later, AutoCAD™ 2000, R 13, R 14, for Windows.
	Scanner: Microsoft Windows drivers for HP Designjet 500, 800, 1000, 4000, 4500, 5000 and 5500 series printers
Print Languages	Adobe® PostScript® 3™, HP-GL/2, HP RTL, CALS G4
Dimensions (w x d x h)	
MFP	80.1 x 40.9 x 63.0 in/2034 x 1040 x 1600 mm
Printer shipping	85.8 x 28.7 x 43.7 in/2180 x 730 x 1110 mm
Scanner shipping	74.8 x 26.7 x 61.6 in/1900 x 680 x 1565 mm
Weight	
MFP	404.5 lb/183.47 kg
Printer shipping	216 lb/98 kg
Scanner shipping	370.3 lb/168 kg
What's in the box	HP Designjet 820 MFP including printer, scanner, touch screen, keyboard, built-in HP Jetdirect 620n network card, additional Fast Ethernet 10/100 Base-TX, printer and scanner stands, media bin, spindle, power cords, ink cartridges, printheads, roll of media, print/scan/copy software, HP Macroinstaller with Microsoft® Windows® drivers for HP Designjet 500, 800, 1000 and 5000 series printers, HP-GL/2, AutoCAD™ and PostScript® drivers for Windows®, PostScript driver for Macintosh, ZEHRaster Plus for UNIX®, system recovery software CD, Quick Reference Guide, Setup Poster, user documentation CD (interface cables must be ordered separately)

Environmental ranges	
Recommended operating temperature	64 to 90° F/ 18 to 32° C
Storage temperature	-4 to 131° F/ -20 to 55° C
Operating humidity range	20 to 80% RH
Recommended humidity range	25 to 75% RH
Acoustic	
Sound pressure, active	46 dB(A)
Sound pressure, standby	42 dB(A)
Sound power, active	6.9 B(A)
Sound power, standby	5.8 B(A)
Power consumption	330 watts maximum
Power requirements	
Printer	Input voltage 100 to 240 VAC (+/- 10%), auto range, 50/60 Hz, 8 amp maximum
Scanner	100 to 240 VAC (+/- 10%), auto range, 50/60 Hz, 5 amp maximum
Certification	
Safety certification	Compliant with ITE requirements including EU LVD and EN60950, UL or CSA certified for US and Canada, and others.
Electromagnetic compatibility	Compliant with Class A ITE requirements including EU (EMC Directive), USA (FCCrules), Canada (DoC), Australia (ACA), New Zealand (MoC), Japan (VCCI)
Energy Star compliant	Yes (printer only)
Warranty	One-year, next-business-day, on-site warranty

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Adobe PostScript 3

Ordering information

Product	
Q6685A	HP Designjet 820 MFP
Accessories	
C2390A	42 in Spindle
C2951A	1EEE 1284 cable (a-b) 3 meter
Print cartridges	
C4844AE	HP 10 Black
C4911A	HP 82 Cyan
C4912A	HP 82 Magenta
C4913A	HP 82 Yellow
Printheads	
C4810A	HP 11 Black
C4811A	HP 11 Cyan
C4812A	HP 11 Magenta
C4813A	HP 11 Yellow
Media supplies	
C6020B	HP Coated Paper (36 in/914 mm)
C6569C	HP Heavyweight Coated Paper (42 in/1067 mm)
Q1406A	HP Universal Coated Paper (42 in/1067 mm)
C3559A	HP Translucent Bond (36 in/914 mm)
C875A	HP Clear Film (36 in/914 mm)
51642B	HP Matte Film (36-in/914 mm)
C6775A	HP Colorfast Adhesive Vinyl (36 in/914 mm)
C1861A	HP Bright White Inkjet Bond Paper (36 in/914 mm) (NA, LAR, EMEA, AP)
C6787A	HP Banners with Tyvek® (36 in/914 mm)
C3868A	HP Natural Tracing Paper (36 in/914 mm)
C6565A	HP High-Gloss Photo Paper (42 in/1067 mm) (NA, LAR, ASIA, EMEA)
C6563A	HP Semi-Gloss Photo Paper (42 in/1067mm) (NA, EMEA, AP)
C6771A	HP Studio Canvas (36 in/914 mm) (NA, LAR, AP)
C3861A	HP Vellum (36 in/914 mm) (NA, LAR)
Service & Support care packs:	
HP Support pack next-day onsite repair (three-year)	
Post warranty next-day onsite repair (one-year)	
Installation including network configuration	

For more information, visit our website at
www.hp.com/go/designjet

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